



ISO/TC 171/SC 2/WG 8  
ISO/TC 171/SC 2/WG 8 - PDF specification  
Email of secretary:  
Secretariat: ANSI (USA)

**SC2WG8 MtgRept SLC**

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Background: Attached please find the TC171 SC2 WG8 meeting report including convenor report and resolutions for the Salt Lake City meeting held in May 2011.

Committee URL: <http://isotc.iso.org/livelink/livelink/open/tc171sc2wg8>

## Meeting Report

### 1. Opening of the meeting

The working group convenor of ISO/TC 171/SC2/WG8, Ms. Nora Calvillo, opened the meeting at 9:08 a.m. on 26 May 2011 and welcomed the delegates. An initial session of TC171/SC2/WG8 was convened at 4:30 p.m. on 25 May 2011 due to the large volume of comments received. The editorial comments were discussed and dispensed with during the initial session. The SC2 secretary is requested to inquire if AIIM would want to assume the responsibilities for the PDF tag registry. Jim King will be providing the SC2 secretary with some details to provide to AIIM with regard to the tag registry.

### 2. Introduction of delegates and attendees

Those experts in attendance at this meeting included:

- Nora Calvillo
- Jim King
- Leonard Rosenthol
- Olaf Drümmer
- Stuart Galt
- Michihiro Kimura
- Nobuaki Usui
- Li Haibo
- Wang Cong
- Peter Noyes
- Don Jacob
- Peter Wyatt
- Yong Boo Park
- Cherie Ekholm
- Nick Parker
- Filiep Maes
- Ferass Elrayes
- Greg Pisocky
- Steve Levenson
- Duff Johnson
- Matthew Hardy
- Jenny Li
- Dennis Newman
- Jim Thatcher
- Betsy Fanning

The list of attendees for the SC2/WG8 meeting is attached to this report.

### **3. Appointment of resolution editing committee and recording secretary**

The working group appointed Nora Calvillo and Betsy Fanning as the recording secretary and Peter Noyes, Nick Parker, and Betsy Fanning as the resolution editing committee.

### **4. Adoption of the agenda**

The agenda for ISO TC 171 SC2 WG8 (SC2 WG8 N596) was modified to include a proposal from Adobe on Navigators and adopted as modified. (Olaf Drümmer/Matthew Hardy)

### **5. Discussion of work items**

39- Handled and off Park list n

56- Removed 'rarely used'

57 – accepted

58- accepted

59- discussed visible vs. invisible flags change to hidden instead of invisible. Changed to 'all tags not hidden' then agreed on 'annotations set to display or print' PARK

60- Need to add reference for ECMA Script version 3. Added set of extensions for Java script to have an XML DOM E4X standard that is supported by Adobe's products. Since it predates PDF 1.7 going to ISO and should have been in normative references in 32000 but was not included.

61- Not accepted. The working group agreed to establish an ad hoc committee to explore putting the two JavaScript documents in ISO format to be included as annexes of ISO 32000-2.

62- The US withdrew this comment. The working group established an ad hoc committee to discuss this issue further.

63- TIFF is a widely used format and is not literally used in PDF but there are some functions that it defines for LZW and Flate that are in TIFF and need to be referenced. There are tag numbers mentioned/referenced. Only place referenced is in PDF revision 6. There have been profiles and other variations that reference the Adobe document. Not accepted and leave it referenced as it is.

64- reference to XFA technology. The committee would like XFA to be an ISO standard. XFA is not to be ISO standard just yet. Adobe was requested to stabilize XFA so that it can become an ISO standard. Part 2 references 3.0 but should reference 3.1. PL does not see what else can be done with 32000 except identify a version of XFA and tell Adobe that we do not like to do extensions and ask them to get the document stabilized. There are other options available. Not accepted.

65- US withdrew this comment.

66- technicality with whitespace. Accepted.

67- accepted.

68- accepted.

69- accepted in principle. PL modified the wording to make sure it was more specific by calling out the Value V Key.

70- Not accepted

71 & 72- Question as to how to introduce a new feature. Not accepted. It was noted that the French proposal is cleaner but the existing wording mentioned about A3

73 – did not accept the comment. Do not need to worry about where the  $x=0$  because 0 is the end point value. Discussed adding a note so that implementers of PDF understand that if a value of 1 is not present what the consequence is. PL offered to AU the opportunity to modify the text.

74- Not accepted

75- Not accepted because it would introduce an incompatibility.

76- PDF does vector graphics by describing paths that are either stroked or filled. PDF standard shows straight lines and does not do anything with curves.

77- The cross references in the response if added can resolve the issue. Accepted in principle adding reference. Requested to refer to XPS as the Open XPS.

78- Accepted in principle. The working group drafted some words to be included in the standard.

79- Accepted in principle

80- Accepted. All are CIE color conversions

81- Accepted in principle.

82- ok if add a cross reference

83 – Accepted

84 – Accepted

85 – Accepted

86 – accepted amended the text to be used to resolve this comment.

87- Accepted

88 – Not accepted

89 – Accepted in principle.

90 – accepted

91 – Type One is the original postscript font used. Open type is one of the key current font standards. Underlying comment is to review the font section and update it as it appears it has not been revised for some time. The WG discussed that it was not good to update the technical portion of the fonts but editorial clean up. Leonard and Olaf agreed! Accepted in principle. It is difficult to read but is also very fragile. Consider editing the section for another version. Very careful editorial changes would be fine. Fonts in PDF have not changed. The PL will put Open Type in appropriate places.

The working group discussed drafting a Best Practice guide for using fonts.

Action Item: Olaf Drümmer will develop a presentation on how best to address fonts to be included in December meeting.

92- Accepted

93 – There is a text object that exists. There are rules on how you prepare the object in transparency and how the object participates in the transparency model. Discussed how knockout works. Discussed removing second bullet. Softmask still has issues according to AU.

94- Accepted in principle

95- Accepted in principle

96- Accepted

97- Accepted in principle

98- Accepted

99- Information was found a cross reference may be helpful. Accepted in principle.

100- accepted

101- Accepted. Section will be reviewed

102- This issue was previously discussed. Uses SE Key expanding destinations and actions. Not accepted because want to do in more general manner. Leonard Rosenthol and Ferass Elrayes to take action for the December meeting.

103-106 – accepted

107 – Not accepted and should be dealt with as a future proposal.

108-110 accepted

111 – Used PDF/A Discussed if EM key should be added to the list.

112- Accepted

113 – Accepted

114 – Discussed annotation dictionaries

115 – Accepted in principle

116 – Accepted

117 - Accepted

118- Accepted after editing the comment response.

119- Not accepted

120 – Not accepted

121 Not accepted

122 – appearance is a stream with an image in it. Not accepted

123- not needed not accepted

124 – Not accepted

125-127 – Accepted in principle change interactive with PDF writer

128 – Accepted in principle and allow the PL to improve it.

129 – Projection annotations do not have appearances. Reviewed the PDF/A-2 wording used in a previous comment (#111) projection, popup or link. Comment is not accepted because we made a change that was acceptable.

130 – It is possible to have a non-interactive processor that processes actions. Signature field can have an appearance before it is signed

131 – Accepted in principle. Deprecated the key.

132 – not accepted

133 – Interactive PDF processor

134-135 – Accepted

136 – A best practices guide for this item would be helpful for developers. Notes added to Tables 267 and 260. Leonard Rosenthal will come to December meeting with a proposal for digital signatures.

137 – OK with the project leader assessment

138 – Not accepted

139 – Matthew and Jim will work on cleaning up this section. Microsoft will be happy to help and review.

140 – 142 – Agreement with project leader

143-145 – Accepted in principle

146 – not accepted

147 – is Adobe and will be changed to ISO.

148 – Not accepted

149 – accepted

150-152 – accepted

153 – agreed with project leader

Added one comment – 14.13 The PDF/A committee has agreed to change to Associated files.

The ad hoc committee formed to work on converting the Adobe JavaScript references to ISO format includes Jim Thatcher, Cherie Ekholm, Duff Johnson, Leonard Rosenthal and Matthew Hardy.

US discussed SWfT and after withdrawing their comment would like to form Ad hoc committee to explore HTML technology to create a rich media experience and Navigators. The ad hoc committee includes Jim Thatcher, Cherie Ekholm, Matthew Hardy and Leonard Rosenthal.

If the ad hoc committee is able to complete their work prior to this version, they will submit their work for inclusion in the document. If not, they will submit if for a later version.

The working group reviewed the navigation proposal. Germany objected to making a decision on the proposal during the meeting since they had less than 6 weeks to review the proposal.

The working group reviewed the Japanese proposal.

A test suite proposal was reviewed by the working group. There are a number of poor quality PDF files available. The working group reviewed four types of conformance. Two additional ad hoc committees were formed to address conformance. The ad hoc committee on file format syntax includes Matthew Hardy, Olaf Drümmer, Leonard Rosenthal, Peter Wyatt, Ferass Elrayes, and Filipe Maes. The rendering validation ad hoc committee will include Matthew Hardy, Peter Wyatt, Cherie Ekholm, Olaf Drümmer, Leonard Rosenthal. Duff Johnson and Filipe Maes.

## **6. Other Business**

The Project Leader, Jim King, announced his intent to retire after the Salt Lake City meeting. The role of Project Leader was reviewed. Matthew Hardy volunteered to take on the Project Leader role. A project leader team of Duff Johnson and Cherie Ekholm were recommended. The working group discussed the issue of a new project leader and the need for the project leader to have a technical depth of PDF knowledge. The working group agreed to the proposed project leader team of Duff Johnson and Cherie Ekholm. Jim King agreed to complete the work resulting from the Salt Lake City meeting prior to turning the files over to the project leader team. The working group expressed appreciation to Jim King for his tireless efforts as the project leader for ISO 32000-1 and ISO 32000-2.

ISO 32000-1: 2008 will begin the review cycle shortly. A systematic review ballot will be issued shortly.

## **8. Approval of resolutions and statements of results**

The working group agreed upon 12 resolutions.

## **9. Closing of the meeting**

The meeting of Working Group SC2 WG8 was adjourned at 6:18 p.m. on May 26, 2011 in Salt Lake City. (Don Jacobs/Peter Wyatt)

The working group convenor, Ms. Nora Calvillo thanked the delegates for their participation in the meeting.



**ISO/TC171/SC2/WG8  
Draft Resolutions  
Salt Lake City, UT, USA**

Resolution – ISO/TC171/SC2 instructs its SC2 Secretary to request that ISO register 'vnd.iso' or identify another registration.

Resolution – ISO/TC171/SC2 resolves to form a WG8 ad hoc committee to work on converting the Adobe Acrobat 3D JavaScript Reference, Version 9.1 and Adobe JavaScript for Acrobat API Reference, Version 9.1 into ISO format. The ad hoc committee will include Jim Thatcher (acting chair), Cherie Ekholm, Duff Johnson, Leonard Rosenthol, Stuart Galt and Matthew Hardy.

Resolution – ISO/TC171/SC2 resolves to form a WG8 ad hoc committee to explore the use of HTML technology to create a rich media navigator experience. The ad hoc committee will include Jim Thatcher, Cherie Ekholm, Leonard Rosenthol (acting chair), Olaf Drümmer and Matthew Hardy.

Resolution – ISO/TC171/SC2 resolves to form a WG8 ad hoc committee to explore a file format syntax for validating PDF files. The ad hoc committee will include Olaf Drümmer, Leonard Rosenthol, Peter Wyatt, Matthew Hardy, Cherie Ekholm, Duff Johnson, Filiep Maes, and Ferass Elrayes (acting chair).

Resolution – ISO/TC171/SC2 resolves to form a WG8 ad hoc committee to work on developing rendering validation for PDF files. The ad hoc committee will include Matthew Hardy (acting chair), Peter Wyatt, Leonard Rosenthol, Olaf Drümmer, Cherie Ekholm, Filiep Maes, and Duff Johnson.

Resolution – ISO/TC171/SC2 requests its WG8 Project Leader, Jim King, to prepare a revised disposition of comments draft based on SC2N664 from the ISO/CD 32000-2 ballot and the discussions in Salt Lake City and send the revised disposition to the SC2 Secretary by May 27, 2011.

Resolution – ISO/TC171/SC2 instructs its SC2 Secretary to distribute the revised disposition of comments based on SC2N664 from the ISO/CD 32000-2 ballot and the discussions in Salt Lake City by May 31, 2011.

Resolution – ISO/TC171/SC2 requests its WG8 project leader, Jim King to produce a revised draft based on SC2N651 and the discussions in Salt Lake City and submit the revised draft to the SC2 secretary by July 15, 2011.

Resolution - ISO/TC171/SC2 instructs its SC2 Secretary to issue a 3-month CD ballot by August 1, 2011.

Resolution – ISO/TC171/SC2 expresses its appreciation to Jim King for his exceptional dedication and contribution as the Project Leader for ISO 32000-1 and ISO 32000-2.

Resolution – ISO/TC171/SC2 appoints Cherie Ekholm and Duff Johnson as the project leaders for ISO 32000-2.

Resolution – ISO/TC171/SC2 requests its SC2 secretary to inform ISO CS of the modification of the project leader from Jim King to Cherie Ekholm and Duff Johnson by May 31, 2011.

## Working Group Convenor Report

Working Group Number and Title: TC171 SC2 WG8 - Document Management Applications  
Application Issues PDF-Reference

Meeting Date: May 26, 2011

Working Group Convenor: Nora Calvillo

Number of subject experts in attendance: 25

Number of countries represented: 9

Project(s) discussed: CD 32000-2, Document management – Portable document format (PDF) – Part 2:  
PDF 2.0

Actions taken with the project(s) (ie, 2 month CD, DIS, etc.):  
3 month CD

Decisions agreed upon:

- Committee requested that the Registry be kept by an entity other than Adobe Systems
  - AllIM to confirm if they can host the registry
  - Needs to be public and always available
  - Jim King wrote a specification for Adobe Systems with technical requirements of server to host the Registry; to send to Betsy. The spec covers requirements for the 3 aspects that the Registry covers
  - If AllIM cannot do it, the Committee can discuss alternatives
- The Committee requested that the Project Leader list the places where the latest version of a referenced standard causes incompatibility issues and an older version of those standards is required
- Olaf Drümmer will present a proposal on a template for Best Practices to create a PDF with fonts the correct way, and he'll present it in the December meeting
- The Committee urges Adobe Systems to submit the XFA Specification, XML Forms Architecture (XFA), to ISO for standardization

New project(s):

None

Projects with little or no progress since last meeting:

None

New project leader(s) appointed:

Duff Johnson and Cherie Ekholm

Next steps:

- May 27, 2011 → Jim King to send dispositioned comments to the TC171 Secretary
- May 31 → TC171 Secretary to distribute comments to WG
- July 15<sup>th</sup> → Updated Draft from Project Leader to TC171 Secretary

- Aug 1<sup>st</sup> → 3-mo CD Ballot to be issued
- Nov 1<sup>st</sup> → CD Ballot closes
- Next Meeting beginning of December 2011

Number of resolutions drafted for SC2 Approval:

12

Concerns or issues impeding the work:

- The Committee is concerned about the stability of the XFA specification

Any "blocking" actions from specific country/region/company:

None

Comments from the convenor:

- 153 comments were discussed
- Discussion:
  - Comment 64 =>
    - does the committee wish that the XFA become an ISO standard?
      - Yes
    - Part 2 will reference XFA 3.1
    - Lang extensions allow for a file to include functionality on a new version of a given specification; committee members have a concern about this
    - Stability of XFA is a major concern of committee members
  - Committee asked to refer to XPS formal spec name not Microsoft XPS in the comments
  - Comment 83: ensure that the ICC spec will be published within the 32k part 2 timeline
  - Committee requests that the fonts sections be simplified but out of scope of Part 2, so instead to be done in future major update Part 3 or later
  - Comment 95: Adobe will provide new URL to project leader; no login is required
  - Comments 107, 116: Not accepted; a proposal with specifics should be introduced for inclusion in a future version of the 32k std
  - Comment 135 => introduced as TE but should be ED
  - Comments 137, 140 => Cherie may bring a proposal for December to be discussed
  - Comment 147 => resolution to have ISO register vnd.iso if it's not registered
  - New comment added:
    - 14.13 Alternative files => PDF/A committee agreed to change "Alternative files" to "Associated files"
  - Navigators proposal (Matthew Hardy)
    - Distributed to the committee on May 11, 2011, so it will be introduced as a proposal for December meeting
  - Update from ad hoc committee on commonalities and differences among the PDF subsets (PDF Streams; Duff Johnson)
    - Recommendations:

- Japanese proposal continues
- Draft doc developed in Hamburg in 2009 to be used as a starting point
- PDF/A Core for all standards
  - Needs to be more fully developed
  - Use PDF/A for interchange purposes
- Update from ad hoc committee on test suite viability (Matthew Hardy)
  - Recommendations:
    - 4 types of validation
    - An open source grammar validator should be produced
    - 2 ad hoc committees:
      - File format syntax validation specification (Matthew, Olaf, Duff, Leonard, Peter, Ferass, Filipe)
      - Rendering validation (Matthew, Peter, Cherie, Olaf, Leonard, Duff, Filipe)
- Reconfirmation
  - Ballot distributed around Jan/Feb 2012
  - Each National Body will be able to vote on one option:
    1. Part 1 – Stays as is
    2. Part 1 - Modify and re-submit
    3. Part 1 – Withdraw



Attendance Sheet

ISO/TC 171/ SC2

Meeting: ISO/TC 171/SC2/WG8

Location: Salt Lake City, UT, USA

Date: 26 May 2011

Name	Representing (Country)
Jim King	Project Leader
Nora Calvillo	Convener
Olaf Drümmer	Germany
Leonard Rosenthal	US
Stuart Galt	US
Michihiko Kimura	Japan
Nobuaki	Japan
Hai Bo Li	China
Wang Cong	China
Peter Nages	US
Don Jacob	us
Peter Wyatt	Australia
Yong Boo Park	Korea
Cherie Ekholm	US
Nick Parker	FRANCE
MAES FILIER	BELGIUM
ELRAYES, FERASS	CANADA
Greg Pisecky	USA
STEVE LEVENSON	ANSI
Duff Johnson	USA
MATTHEW HARDY	USA
Jenny Li	USA
Dennis Newman	USA
Jim Thatcher	USA
Betsy Fanning	SC2 Secretary